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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/760,786	01/17/2001	Hirokazu Sakai	201989US3	4950	
22850 7	590 05/24/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			DEMILLE, DANTON D		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
	,		3764	······································	
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DATE MAILED: 05/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)	7			
Office Action Summary		09/760,78	36	SAKAI ET AL.				
		Examiner	•	Art Unit				
		Danton D	eMille	3764				
7 Period for R	he MAILING DATE of this communicately	ation appears on the	e cover sheet with the	correspondence address				
THE MA - Extension after SIX - If the peri - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR ILING DATE OF THIS COMMUNIC, as of time may be available under the provisions of (6) MONTHS from the mailing date of this commun od for reply specified above is less than thirty (30) of of reply is specified above, the maximum statut reply within the set or extended period for reply will received by the Office later than three months after alent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evolication. days, a reply within the statiory period will apply and will, by statute, cause the app	ent, however, may a reply be ti utory minimum of thirty (30) da ill expire SIX (6) MONTHS fron lication to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communi ED (35 U.S.C. § 133).	cation.			
Status								
1)⊠ Re	esponsive to communication(s) filed	on 10 March 2004.						
•—	•)∐ This action is n	on-final.					
3)∏ Sii								
Disposition	of Claims							
4a) 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) 16-20 and 23 is/are pending in Of the above claim(s) is/are aim(s) is/are allowed. aim(s) 16-20 and 23 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction	withdrawn from co						
Application	Papers							
9)∐ The	e specification is objected to by the l	Examiner.						
10) 🔲 The	e drawing(s) filed on is/are: a	a) accepted or b)	objected to by the	Examiner.				
•	plicant may not request that any objection							
	placement drawing sheet(s) including the e oath or declaration is objected to b	•	-, ,	•				
Priority und	er 35 U.S.C. § 119							
a) [] / 1.[2.[3.[knowledgment is made of a claim for All b) Some * c) None of: Certified copies of the priority do Certified copies of the priority do Copies of the certified copies of application from the International the attached detailed Office action to	ocuments have bee ocuments have bee the priority docume al Bureau (PCT Rul	n received. n received in Applicat ents have been receiv e 17.2(a)).	ion No ed in this National Stage	е			
Attachment(s)	Deference Cited (DTO 200)		4) Intended Summer	, (DTO 412)				
	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO	D-948)	4) Interview Summary Paper No(s)/Mail D	ate				
3) 🔲 Informati	on Disclosure Statement(s) (PTO-1449 or PT v(s)/Mail Date		5) Notice of Informal 6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

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Claim Rejections - 35 USC § 112

- 1. Claims 16-20 and 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 2. It is not clear what applicant is attempting with the language that recites "the imaginary concave plane has edge portion(sic)". It is not clear how an imaginary concave plane has edge portions. It is a continuous surface that doesn't appear to have edges. Moreover, it is made up of the apices of the plurality of projections which is an incomplete surface. It is not a continuous surface to have edge portions. It is also not clear how these edge portions then "gradually decrease height(sic)" toward midpoints of the edge portions. How does edge portions decrease in height? It is not clear how edge portions have a height. An imaginary plane does not have a height. Moreover, it is not clear how these edge portions have a midpoint. How does the edge portions have a length? What are the boundaries of the edge portions? The claim already recites the apices of the projections form an imaginary concave plane. It is not clear how this further defines the invention.
- 3. It is not clear how claim 19 further limits claim 23. Claim 19 recites specific dimensions for the plurality of projections however claim 23 already recites these same dimensions.

Claim Rejections - 35 USC § 103

4. Claims 23 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aichinger (German 0096102) in view of Harris, Van Sant and Homma et al.

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- 5. Aichinger teaches the heart of applicant's invention. Aichinger teaches a detergent, a detergent container having a body and a cover, the cover being detachably attached to the upper portion of the body having a side surface with a plurality of projections with the apices of the projections forming an imaginary curved plane. The choices of the detergent, inner cap and configuration of the projections appear to be well within the realm of the artisan of ordinary skill. The modification of any one of these details does not affect the overall performance of the device and no unexpected results occur. There is no criticality to any one of these details.
- 6. The outer cover of Aichinger already has an inner cover 9 covering the opening 1. There is no unobviousness to provide an additional cover over the container opening to seal the contents so that the contents doesn't spill when the outer cover is removed during use. Harris teaches just such a convention. Figure 3 shows a container with an outer cover detachably attached to the upper portion of the body without a removable inner cover. Figure 2 teaches the provision of including a removable inner cover sealing the container opening. Obviously you can have it either way. With an additional cover or without depending on the intended use. It would have been obvious to one of ordinary skill in the art to modify Aichinger to include an inner cover over the container opening as taught by Harris to prevent the contents from spilling when the outer cover is removed and used separately.
- 7. There is also no unobviousness to the shape of the projections. The shape of the projections can be modified to better conform to the shape of the human body as desired.

 Aichinger already teaches the projections form a curved shape to conform to the shape of the head. It is not an inventive step to do the same thing only a little differently. Van Sant teaches that the height of the projections can decrease toward the center portion to form an imaginary

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concave plane, page 2, lines 25-29, "The projections 14 do not stand up as high as the projections 15, thus affording substantially concave points of contact adapted to more or less conform to the contour of the head." It would have been obvious to one of ordinary skill in the art to further modify Aichinger to shape the ends of the projections to be concave as taught by Van Sant to better conform the surface of the projections to the shape of the human head. The shampoo container of the instant invention and the prior art are applying shampoo to the head of the user and working it into the hair by using the projections. Aichinger teaches a curved shape to the projections to conform to the shape of the head and Van Sant teaches another obvious equivalent alternative shape which is more convex to better conform to the shape of the head. The head is convex and to shape the ends of the projections to conform to the convex shape of the head would have been an obvious to one of ordinary skill in the art as exemplified by Van Sant.

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- Every element of the detergent claimed is found in Homma. Using a conventional 8. shampoo such as one that includes a cationic polymer, nonionic surface active agent, alcohol and water would have been an obvious provision in Aichinger or Harris. Homma teaches such a shampoo composition that includes 0.05 to 2.5 % cationic polymer (abstract), nonionic surface active agents (column 2, lines 4-5), alcohol (column 5, line 14) and the balance with water. It would have been obvious to one of ordinary skill in the art to further modify Aichinger and use a conventional shampoo such as taught by Homma to complete the shampoo container.
- 9. Regarding the last paragraph of claim 23, there appears to be no unobviousness to the specific dimensions claimed. These dimensions appear to be that of any conventional projection in the prior art. These dimensions do not appear to be critical or create any unexpected results.

They appear to be comprehended by the prior art. Any specific dimension would be well within the realm of the artisan of ordinary skill to find optimum results through routine experimentation.

- 10. Regarding claims 16-18, Homma teaches each of these limitations. Homma teaches the cationic polymer compound cationic cellulose in column 4, line 53. Homma teaches the nonionic surface active agent polyoxyethylene alkyl ethers in column 2, lines 56-57. Homma teaches ethanol in column 5, line 14
- 11. Regarding claim 20, the density of the projections also appear to be well within the realm of the artisan of ordinary skill. There appears to be no criticality or unexpected results to these densities. They appear to be comprehended by the prior art.

Response to Arguments

- 12. Applicant's arguments filed 10 March 2004 have been fully considered but they are not persuasive.
- 13. Applicant argues that the combination of the specific detergent and the conical projections prevents hairs from tangling however Homma teaches the claimed detergent including the function of improved combing or brushing. The detergent claimed, including property of preventing tangling of the hair, is not new as exemplified by Homma. This would be true for any sized projections.
- 14. Applicant argues none of the references disclose or suggest a combination of flat side surface and an imaginary concave plane formed by the apices of the projections extending form the flat side surface. The examiner respectfully disagrees. Van Sant clearly teaches this as shown in figure 2. Figure 2 clearly shows a flat surface on top of the cover and the concave

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imaginary surface formed by the apices of the projections as further supported on page 2, lines

25-29.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

16. A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

ddd

19 May, 2004

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